

Vonder

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/511,096
Source: PCT
Date Processed by STIC: 06/15/2005

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 06/15/2005

PATENT APPLICATION: US/10/511,096

TIME: 16:10:17

Input Set : A:\US10511096-seq list.txt

Output Set: N:\CRF4\06152005\J511096.raw

```

3 <110> APPLICANT: Evotec NeuroSciences GmbH
5 <120> TITLE OF INVENTION: Diagnostic and therapeutic use of a Golgi protein for
6   neurodegenerative diseases
8 <130> FILE REFERENCE: P67813US1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/511,096
C--> 11 <141> CURRENT FILING DATE: 2004-10-14
13 <160> NUMBER OF SEQ ID NOS: 27
15 <170> SOFTWARE: PatentIn Ver. 2.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 36
19 <212> TYPE: DNA
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: Description of Artificial Sequence: golgin-245
24   cDNA fragment
26 <400> SEQUENCE: 1
27 agttaagttt ctttgtaaaa cactgatttt ttctcc                      36
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 2228
32 <212> TYPE: PRT
33 <213> ORGANISM: Homo sapiens
35 <400> SEQUENCE: 2
36 Met Phe Lys Lys Leu Lys Gln Lys Ile Ser Glu Glu Gln Gln Gln Leu
37   1             5             10             15
39 Gln Gln Ala Leu Ala Pro Ala Gln Ala Ser Ser Asn Ser Ser Thr Pro
40             20             25             30
42 Thr Arg Met Arg Ser Arg Thr Ser Ser Phe Thr Glu Gln Leu Asp Glu
43             35             40             45
45 Gly Thr Pro Asn Arg Glu Ser Gly Asp Thr Gln Ser Phe Ala Gln Lys
46             50             55             60
48 Leu Gln Leu Arg Val Pro Ser Val Glu Ser Leu Phe Arg Ser Pro Ile
49   65             70             75             80
51 Lys Glu Ser Leu Phe Arg Ser Ser Ser Lys Glu Ser Leu Val Arg Thr
52             85             90             95
54 Ser Ser Arg Glu Ser Leu Asn Arg Leu Asp Leu Asp Ser Ser Thr Ala
55             100            105            110
57 Ser Phe Asp Pro Pro Ser Asp Met Asp Ser Glu Ala Glu Asp Leu Val
58             115            120            125
60 Gly Asn Ser Asp Ser Leu Asn Lys Glu Gln Leu Ile Gln Arg Leu Arg
61             130            135            140
63 Arg Met Glu Arg Ser Leu Ser Ser Tyr Arg Gly Lys Tyr Ser Glu Leu
64   145            150            155            160
66 Val Thr Ala Tyr Gln Met Leu Gln Arg Glu Lys Lys Lys Leu Gln Gly

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,096

DATE: 06/15/2005

TIME: 16:10:17

Input Set : A:\US10511096-seq list.txt

Output Set: N:\CRF4\06152005\J511096.raw

```

67          165          170          175
69 Ile Leu Ser Gln Ser Gln Asp Lys Ser Leu Arg Arg Ile Ala Glu Leu
70          180          185          190
72 Arg Glu Glu Leu Gln Met Asp Gln Gln Ala Lys Lys His Leu Gln Glu
73          195          200          205
75 Glu Phe Asp Ala Ser Leu Glu Glu Lys Asp Gln Tyr Ile Ser Val Leu
76          210          215          220
78 Gln Thr Gln Val Ser Leu Leu Lys Gln Arg Leu Arg Asn Gly Pro Met
79 225          230          235          240
81 Asn Val Asp Val Leu Lys Pro Leu Pro Gln Leu Glu Pro Gln Ala Glu
82          245          250          255
84 Val Phe Thr Lys Glu Glu Asn Pro Glu Ser Asp Gly Glu Pro Val Val
85          260          265          270
87 Glu Asp Gly Thr Ser Val Lys Thr Leu Glu Thr Leu Gln Gln Arg Val
88          275          280          285
90 Lys Arg Gln Glu Asn Leu Leu Lys Arg Cys Lys Glu Thr Ile Gln Ser
91          290          295          300
93 His Lys Glu Gln Cys Thr Leu Leu Thr Ser Glu Lys Glu Ala Leu Gln
94 305          310          315          320
96 Glu Gln Leu Asp Glu Arg Leu Gln Glu Leu Glu Lys Ile Lys Asp Leu
97          325          330          335
99 His Met Ala Glu Lys Thr Lys Leu Ile Thr Gln Leu Arg Asp Ala Lys
100          340          345          350
102 Asn Leu Ile Glu Gln Leu Glu Gln Asp Lys Gly Met Val Ile Ala Glu
103          355          360          365
105 Thr Lys Arg Gln Met His Glu Thr Leu Glu Met Lys Glu Glu Glu Ile
106          370          375          380
108 Ala Gln Leu Arg Ser Arg Ile Lys Gln Met Thr Thr Gln Gly Glu Glu
109 385          390          395          400
111 Leu Arg Glu Gln Lys Glu Lys Ser Glu Arg Ala Ala Phe Glu Glu Leu
112          405          410          415
114 Glu Lys Ala Leu Ser Thr Ala Gln Lys Thr Glu Glu Ala Arg Arg Lys
115          420          425          430
117 Leu Lys Ala Glu Met Asp Glu Gln Ile Lys Thr Ile Glu Lys Thr Ser
118          435          440          445
120 Glu Glu Glu Arg Ile Ser Leu Gln Gln Glu Leu Ser Arg Val Lys Gln
121          450          455          460
123 Glu Val Val Asp Val Met Lys Lys Ser Ser Glu Glu Gln Ile Ala Lys
124 465          470          475          480
126 Leu Gln Lys Leu His Glu Lys Glu Leu Ala Arg Lys Glu Gln Glu Leu
127          485          490          495
129 Thr Lys Lys Leu Gln Thr Arg Glu Arg Glu Phe Gln Glu Gln Met Lys
130          500          505          510
132 Val Ala Leu Glu Lys Ser Gln Ser Glu Tyr Leu Lys Ile Ser Gln Glu
133          515          520          525
135 Lys Glu Gln Gln Glu Ser Leu Ala Leu Glu Glu Leu Glu Leu Gln Lys
136          530          535          540
138 Lys Ala Ile Leu Thr Glu Ser Glu Asn Lys Leu Arg Asp Leu Gln Gln
139 545          550          555          560

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,096

DATE: 06/15/2005

TIME: 16:10:17

Input Set : A:\US10511096-seq list.txt

Output Set: N:\CRF4\06152005\J511096.raw

```

141 Glu Ala Glu Thr Tyr Arg Thr Arg Ile Leu Glu Leu Glu Ser Ser Leu
142          565          570          575
144 Glu Lys Ser Leu Gln Glu Asn Lys Asn Gln Ser Lys Asp Leu Ala Val
145          580          585          590
147 His Leu Glu Ala Glu Lys Asn Lys His Asn Lys Glu Ile Thr Val Met
148          595          600          605
150 Val Glu Lys His Lys Thr Glu Leu Glu Ser Leu Lys His Gln Gln Asp
151          610          615          620
153 Ala Leu Trp Thr Glu Lys Leu Gln Val Leu Lys Gln Gln Tyr Gln Thr
154 625          630          635          640
156 Glu Met Glu Lys Leu Arg Glu Lys Cys Glu Gln Glu Lys Glu Thr Leu
157          645          650          655
159 Leu Lys Asp Lys Glu Ile Ile Phe Gln Ala His Ile Glu Glu Met Asn
160          660          665          670
162 Glu Lys Thr Leu Glu Lys Leu Asp Val Lys Gln Thr Glu Leu Glu Ser
163          675          680          685
165 Leu Ser Ser Glu Leu Ser Glu Val Leu Lys Ala Arg His Lys Leu Glu
166          690          695          700
168 Glu Glu Leu Ser Val Leu Lys Asp Gln Thr Asp Lys Met Lys Gln Glu
169 705          710          715          720
171 Leu Glu Ala Lys Met Asp Glu Gln Lys Asn His His Gln Gln Gln Val
172          725          730          735
174 Asp Ser Ile Ile Lys Glu His Glu Val Ser Ile Gln Arg Thr Glu Lys
175          740          745          750
177 Ala Leu Lys Asp Gln Ile Asn Gln Leu Glu Leu Leu Leu Lys Glu Arg
178          755          760          765
180 Asp Lys His Leu Lys Glu His Gln Ala His Val Glu Asn Leu Glu Ala
181          770          775          780
183 Asp Ile Lys Arg Ser Glu Gly Glu Leu Gln Gln Ala Ser Ala Lys Leu
184 785          790          795          800
186 Asp Val Phe Gln Ser Tyr Gln Ser Ala Thr His Glu Gln Thr Lys Ala
187          805          810          815
189 Tyr Glu Glu Gln Leu Ala Gln Leu Gln Gln Lys Leu Leu Asp Leu Glu
190          820          825          830
192 Thr Glu Arg Ile Leu Leu Thr Lys Gln Val Ala Glu Val Glu Ala Gln
193          835          840          845
195 Lys Lys Asp Val Cys Thr Glu Leu Asp Ala His Lys Ile Gln Val Gln
196          850          855          860
198 Asp Leu Met Gln Gln Leu Glu Lys Gln Asn Ser Glu Met Glu Gln Lys
199 865          870          875          880
201 Val Lys Ser Leu Thr Gln Val Tyr Glu Ser Lys Leu Glu Asp Gly Asn
202          885          890          895
204 Lys Glu Gln Glu Gln Thr Lys Gln Ile Leu Val Glu Lys Glu Asn Met
205          900          905          910
207 Ile Leu Gln Met Arg Glu Gly Gln Lys Lys Glu Ile Glu Ile Leu Thr
208          915          920          925
210 Gln Lys Leu Ser Ala Lys Glu Asp Ser Ile His Ile Leu Asn Glu Glu
211          930          935          940
213 Tyr Glu Thr Lys Phe Lys Asn Gln Glu Lys Lys Met Glu Lys Val Lys

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,096

DATE: 06/15/2005

TIME: 16:10:17

Input Set : A:\US10511096-seq list.txt

Output Set: N:\CRF4\06152005\J511096.raw

```

214 945          950          955          960
216 Gln Lys Ala Lys Glu Met Gln Glu Thr Leu Lys Lys Lys Leu Leu Asp
217          965          970          975
219 Gln Glu Ala Lys Leu Lys Lys Glu Leu Glu Asn Thr Ala Leu Glu Leu
220          980          985          990
222 Ser Gln Lys Glu Lys Gln Phe Asn Ala Lys Met Leu Glu Met Ala Gln
223          995          1000          1005
225 Ala Asn Ser Ala Gly Ile Ser Asp Ala Val Ser Arg Leu Glu Thr Asn
226          1010          1015          1020
228 Gln Lys Glu Gln Ile Glu Ser Leu Thr Glu Val His Arg Arg Glu Leu
229 1025          1030          1035          1040
231 Asn Asp Val Ile Ser Ile Trp Glu Lys Lys Leu Asn Gln Gln Ala Glu
232          1045          1050          1055
234 Glu Leu Gln Glu Ile His Glu Ile Gln Leu Gln Glu Lys Glu Gln Glu
235          1060          1065          1070
237 Val Ala Glu Leu Lys Gln Lys Ile Leu Leu Phe Gly Cys Glu Lys Glu
238          1075          1080          1085
240 Glu Met Asn Lys Glu Ile Thr Trp Leu Lys Glu Glu Gly Val Lys Gln
241          1090          1095          1100
243 Asp Thr Thr Leu Asn Glu Leu Gln Glu Gln Leu Lys Gln Lys Ser Ala
244 1105          1110          1115          1120
246 His Val Asn Ser Leu Ala Gln Asp Glu Thr Lys Leu Lys Ala His Leu
247          1125          1130          1135
249 Glu Lys Leu Glu Val Asp Leu Asn Lys Ser Leu Lys Glu Asn Thr Phe
250          1140          1145          1150
252 Leu Gln Glu Gln Leu Val Glu Leu Lys Met Leu Ala Glu Glu Asp Lys
253          1155          1160          1165
255 Arg Lys Val Ser Glu Leu Thr Ser Lys Leu Lys Thr Thr Asp Glu Glu
256          1170          1175          1180
258 Phe Gln Ser Leu Lys Ser Ser His Glu Lys Ser Asn Lys Ser Leu Glu
259 1185          1190          1195          1200
261 Asp Lys Ser Leu Glu Phe Lys Lys Leu Ser Glu Glu Leu Ala Ile Gln
262          1205          1210          1215
264 Leu Asp Ile Cys Cys Lys Lys Thr Glu Ala Leu Leu Glu Ala Lys Thr
265          1220          1225          1230
267 Asn Glu Leu Ile Asn Ile Ser Ser Ser Lys Thr Asn Ala Ile Leu Ser
268          1235          1240          1245
270 Arg Ile Ser His Cys Gln His Arg Thr Thr Lys Val Lys Glu Ala Leu
271          1250          1255          1260
273 Leu Ile Lys Thr Cys Thr Val Ser Glu Leu Glu Ala Gln Leu Arg Gln
274 1265          1270          1275          1280
276 Leu Thr Glu Glu Gln Asn Thr Leu Asn Ile Ser Phe Gln Gln Ala Thr
277          1285          1290          1295
279 His Gln Leu Glu Glu Lys Glu Asn Gln Ile Lys Ser Met Lys Ala Asp
280          1300          1305          1310
282 Ile Glu Ser Leu Val Thr Glu Lys Glu Ala Leu Gln Lys Glu Gly Gly
283          1315          1320          1325
285 Asn Gln Gln Gln Ala Ala Ser Glu Lys Glu Ser Cys Ile Thr Gln Leu
286          1330          1335          1340

```

RAW SEQUENCE LISTING

DATE: 06/15/2005

PATENT APPLICATION: US/10/511,096

TIME: 16:10:17

Input Set : A:\US10511096-seq list.txt

Output Set: N:\CRF4\06152005\J511096.raw

```

288 Lys Lys Glu Leu Ser Glu Asn Ile Asn Ala Val Thr Leu Met Lys Glu
289 1345          1350          1355          1360
291 Glu Leu Lys Glu Lys Lys Val Glu Ile Ser Ser Leu Ser Lys Gln Leu
292          1365          1370          1375
294 Thr Asp Leu Asn Val Gln Leu Gln Asn Ser Ile Ser Leu Ser Glu Lys
295          1380          1385          1390
297 Glu Ala Ala Ile Ser Ser Leu Arg Lys Gln Tyr Asp Glu Glu Lys Cys
298          1395          1400          1405
300 Glu Leu Leu Asp Gln Val Gln Asp Leu Ser Phe Lys Val Asp Thr Leu
301          1410          1415          1420
303 Ser Lys Glu Lys Ile Ser Ala Leu Glu Gln Val Asp Asp Trp Ser Asn
304 1425          1430          1435          1440
306 Lys Phe Ser Glu Trp Lys Lys Lys Ala Gln Ser Arg Phe Thr Gln His
307          1445          1450          1455
309 Gln Asn Thr Val Lys Glu Leu Gln Ile Gln Leu Glu Leu Lys Ser Lys
310          1460          1465          1470
312 Glu Ala Tyr Glu Lys Asp Glu Gln Ile Asn Leu Leu Lys Glu Glu Leu
313          1475          1480          1485
315 Asp Gln Gln Asn Lys Arg Phe Asp Cys Leu Lys Gly Glu Met Glu Asp
316          1490          1495          1500
318 Asp Lys Ser Lys Met Glu Lys Lys Glu Ser Asn Leu Glu Thr Glu Leu
319 1505          1510          1515          1520
321 Lys Ser Gln Thr Ala Arg Ile Met Glu Leu Glu Asp His Ile Thr Gln
322          1525          1530          1535
324 Lys Thr Ile Glu Ile Glu Ser Leu Asn Glu Val Leu Lys Asn Tyr Asn
325          1540          1545          1550
327 Gln Gln Lys Asp Ile Glu His Lys Glu Leu Val Gln Lys Leu Gln His
328          1555          1560          1565
330 Phe Gln Glu Leu Gly Glu Glu Lys Asp Asn Arg Val Lys Glu Ala Glu
331          1570          1575          1580
333 Glu Lys Ile Leu Thr Leu Glu Asn Gln Val Tyr Ser Met Lys Ala Glu
334 1585          1590          1595          1600
336 Leu Glu Thr Lys Lys Lys Glu Leu Glu His Val Asn Leu Ser Val Lys
337          1605          1610          1615
339 Ser Lys Glu Glu Glu Leu Lys Ala Leu Glu Asp Arg Leu Glu Ser Glu
340          1620          1625          1630
342 Ser Ala Ala Lys Leu Ala Glu Leu Lys Arg Lys Ala Glu Gln Lys Ile
343          1635          1640          1645
345 Ala Ala Ile Lys Lys Gln Leu Leu Ser Gln Met Glu Glu Lys Glu Glu
346          1650          1655          1660
348 Gln Tyr Lys Lys Gly Thr Glu Ser His Leu Ser Glu Leu Asn Thr Lys
349 1665          1670          1675          1680
351 Leu Gln Glu Arg Glu Arg Glu Val His Ile Leu Glu Glu Lys Leu Lys
352          1685          1690          1695
354 Ser Val Glu Ser Ser Gln Ser Glu Thr Leu Ile Val Pro Arg Ser Ala
355          1700          1705          1710
357 Lys Asn Val Ala Ala Tyr Thr Glu Gln Glu Glu Ala Asp Ser Gln Gly
358          1715          1720          1725
360 Cys Val Gln Lys Thr Tyr Glu Glu Lys Ile Ser Val Leu Gln Arg Asn

```

VERIFICATION SUMMARY

DATE: 06/15/2005

PATENT APPLICATION: US/10/511,096

TIME: 16:10:18

Input Set : A:\US10511096-seq list.txt

Output Set: N:\CRF4\06152005\J511096.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date